

IN THE CLAIMS:

Listing of Claims:

1 1. (currently amended) An IEEE1394 tone transmission method in beta mode
2 comprising:

3 adjusting the internal power consumption level of an IEEE 1394 transceiver's
4 transmitter responsive to an external cable being attached to said transceiver, said
5 adjusting conducted by a controller for automatic adjustment of power consumption level
6 of the device [as]responsive to whether or not an effective bus connection has been[ing]
7 made by said external cable[,];

8 wherein [a current reference with temperature compensation,]a self-calibrated
9 oscillator, a "tone" transmitter, a "tone" receiver, and termination circuitry are all
10 responsive to said controller.

1 2. (currently amended) [An]The IEEE1394 tone transmission method in beta mode
2 according to claim 1, wherein said controller of said adjusting step[it] automatically
3 adjusts power consumption level of said "tone" transmitter downward when the external
4 cable is not plugged in.

1 3. (currently amended) [An]The IEEE1394 tone transmission method in beta mode
2 according to claim 2, wherein said termination circuitry comprises a pair of
3 disconnectable termination resistors, whereby the termination resistors are disconnected
4 when the external cable is not plugged in to said transceiver.

1 4. (currently amended) [An]The IEEE1394 tone transmission method in beta mode
2 according to claim 1, wherein the oscillator is calibrated during the normal transmission
3 [when]responsive to the external cable [is]being plugged in to said transceiver.

1 5. (currently amended) [An]The IEEE1394 tone transmission method in beta mode
2 according to claim 1, further comprising shutting down all circuits other than the current
3 source, the oscillator, the tone transmitter, and the tone receiver, and disabling the

4 termination resistors comprising said termination circuitry while [the]no external cable is
5 [un]plugged in to said transceiver.

1 6. (currently amended) [An]The IEEE1394 tone transmission method in beta mode
2 according to claim 1, further comprising said controller automatically detecting [the]an
3 external cable connection to said transceiver and responsively [connecting]enabling the
4 termination resistors after an external cable connection to said transceiver is detected.

1 7. (canceled)

1 8. (canceled)

1 9. (canceled)

1 10. (canceled)

1 11. (canceled)

1 12. (canceled)

1 13. (canceled)

1 14. (canceled)

1 15. (canceled)

1 16. (new) A method for conserving power in an IEEE1394 transceiver in beta mode,
2 comprising the steps of:

3 disabling an internal oscillator;

4 enabling the receiver circuit of said transceiver;

5 disabling the transmitter circuit of said transceiver; and

6 periodically enabling said transmitter circuit and transmitting a tone in alpha
7 mode to determine whether or not an external cable is interconnecting said transceiver
8 with a second IEEE1394 transceiver.

- 1 17. (new) The method of Claim 16, further comprising a step of enabling said
2 transmitter circuit in beta mode if a tone is detected by said receiver circuit.
- 1 18. (new) The method of claim 17, further comprising a step of enabling said internal
2 oscillator if a tone is detected by said receiver circuit.
- 1 19. (new) The method of Claim 18, further comprising a step of calibrating said
2 internal oscillator if a tone is detected by said receiver circuit.
- 1 20. (new) The method of Claim 17, wherein said transmitter circuit comprises
2 enabling a pair of transmit resistors in said transmitter circuit if a tone is detected by said
3 receiver circuit.
- 1 21. (new) The method of Claim 19, wherein said internal oscillator is powered by a
2 *temperature-compensated current source*.
- 1 22. (new) The method of Claim 21, wherein said internal oscillator is calibrated in
2 reference to an internal crystal oscillator, wherein said crystal oscillator is disabled until
3 said tone detecting.